

WHAT IS CLAIMED IS:

1. A network management system comprising:

a gateway which is coupled to one or more managed objects and which is configured to deliver events generated by the managed objects to one or more managers or to deliver requests generated by the managers to the one or more managed objects; and

10 a platform-independent interface to the gateway, wherein the gateway is configurable to communicate with the managers through the platform-independent interface to deliver the events or requests;

15 wherein the gateway is configurable to authenticate the managers to receive the events from or to send the requests to the managed objects.

2. The network management system of claim 1, wherein the gateway is configurable to determine whether each of the managers is authorized to communicate with each of the managed objects.

20 3. The network management system of claim 1, wherein the gateway is configurable to authenticate the managers to receive the events from or to send the requests to the managed objects as a function of the identity of the managed object.

25 4. The network management system of claim 1, wherein the gateway is configurable to authenticate the managers to receive the events or send the requests as a function of user IDs entered by users of the managers.

5. The network management system of claim 1, wherein the events or requests are delivered by the gateway through the platform-independent interface according to Internet Inter-Object Protocol (IIOP).

5 6. The network management system of claim 1, wherein the platform-independent interface to the gateway is expressed in an interface definition language, and wherein the interface definition language comprises a language for defining interfaces to the managed objects across a plurality of platforms and across a plurality of programming languages.

10 7. The network management system of claim 6, wherein the interface definition language comprises OMG IDL.

8. The network management system of claim 1, wherein the managed objects comprise one or more objects corresponding to a telephone network.

15 9. The network management system of claim 1, wherein the managed objects comprise an object corresponding to a telecommunications device.

20 10. The network management system of claim 1, wherein the gateway is configurable to provide security audit trails.

11. The network management system of claim 10, wherein the gateway providing security audit trails comprises the gateway providing access to a logging service.

25 12. The network management system of claim 10, wherein the logging service is operable to log an ID of a user that receives each event or sends each request.

30 13. The network management system of claim 10, wherein the logging service is operable to log an ID of the managed object that is the source of each event or the target of each request.

14. The network management system of claim 10, wherein the logging service is operable to log a time at which each event or request is generated.

5 15. The network management system of claim 10, wherein the logging service is operable to log a time at which each event or request is delivered.

16. The network management system of claim 1, wherein the requests comprise a query for information concerning one of the managed objects.

10

17. The network management system of claim 1, wherein the requests comprise a command to set one or more parameters of one of the managed objects.

15

18. The network management system of claim 1, wherein the requests are converted from the interface definition language to a Portable Management Interface (PMI) format prior to delivery to the managed objects.

20

19. The network management system of claim 1, wherein the requests are converted from the interface definition language to a platform-specific format prior to delivery to the managed objects.

20. A network management method comprising:

25

sending an identity of a user of a manager application to a gateway, wherein the gateway is configurable to communicate with the manager application through a platform-independent interface;

authenticating the manager application to receive an event generated by a managed object or to send a request to the managed object as a function of

the identity of the user of the manager application, whereby authentication of the manager application is approved or denied; and

delivering the event to the user of the manager application or the request to the managed object if the manager authentication is approved.

21. The network management method of claim 20, wherein the gateway is configurable to determine whether the manager is authorized to communicate with the managed object.

22. The network management method of claim 20, wherein the gateway is configurable to authenticate the manager to receive the event or send the request as a function as the identity of the managed object generating the event or receiving the request.

23. The network management method of claim 20, wherein the gateway is configurable to authenticate the manager to receive the event or send the request as a function of a user ID entered by the user of the manager.

24. The network management method of claim 20, wherein the event or request is delivered by the gateway through the platform-independent interface according to Internet Inter-Object Protocol (IIOP).

25. The network management method of claim 20, wherein the platform-independent interface to the gateway is expressed in an interface definition language, and wherein the interface definition language comprises a language for defining interfaces to the managed objects across a plurality of platforms and across a plurality of programming languages.

26. The network management method of claim 25, wherein the interface definition language comprises OMG IDL.

27. The network management method of claim 20, wherein the managed object comprises an object corresponding to a telephone network.

5 28. The network management method of claim 20, wherein the managed object comprises an object corresponding to a telecommunications device.

29. The network management method of claim 20, wherein the gateway is configurable to provide security audit trails.

10

30. The network management method of claim 29, wherein the gateway providing security audit trails comprises the gateway providing access to a logging service.

15

31. The network management method of claim 30, wherein the logging service is operable to log an ID of a user that receives the event or sends the request.

32. The network management method of claim 30, wherein the logging service is operable to log an ID of the managed object that is the source of the event or the target of the request.

20

33. The network management method of claim 30, wherein the logging service is operable to log a time at which the event or request is generated.

25

34. The network management method of claim 30, wherein the logging service is operable to log a time at which the event or request is delivered.

35. The network management method of claim 20, wherein the request comprises a query for information concerning the managed object.

36. The network management method of claim 20, wherein the request comprises a command to set one or more parameters of the managed object.

37. The network management method of claim 20, wherein the request is converted
5 from the interface definition language to a Portable Management Interface (PMI) format prior to delivery to the managed object.

38. The network management method of claim 20, wherein the request is converted
10 from the interface definition language to a platform-specific format prior to delivery to the managed object.

39. A carrier medium comprising program instructions for network management,
wherein the program instructions are computer-executable to perform:

15 sending an identity of a user of a manager application to a gateway, wherein the gateway is configurable to communicate with the manager application through a platform-independent interface;

20 authenticating the manager application to receive an event generated by a managed object or to send a request to the managed object as a function of the identity of the user of the manager application, whereby authentication of the manager application is approved or denied; and

25 delivering the event to the user of the manager application or the request to the managed object if the manager authentication is approved.

40. The carrier medium of claim 39, wherein the gateway is configurable to determine whether the manager is authorized to communicate with the managed object.

41. The carrier medium of claim 39, wherein the gateway is configurable to authenticate the manager to receive the event or send the request as a function as the identity of the managed object generating the event or receiving the request.

5 42. The carrier medium of claim 39, wherein the gateway is configurable to authenticate the manager to receive the event or send the request as a function of a user ID entered by the user of the manager.

43. The carrier medium of claim 39, wherein the event or request is delivered by the
10 gateway through the platform-independent interface according to Internet Inter-Object Protocol (IIOP).

44. The carrier medium of claim 39, wherein the platform-independent interface to
the gateway is expressed in an interface definition language, and wherein the interface
15 definition language comprises a language for defining interfaces to the managed objects
across a plurality of platforms and across a plurality of programming languages.

45. The carrier medium of claim 44, wherein the interface definition language
comprises OMG IDL.
20

46. The carrier medium of claim 39, wherein the managed object comprises an object
corresponding to a telephone network.

47. The carrier medium of claim 39, wherein the managed object comprises an object
25 corresponding to a telecommunications device.

48. The carrier medium of claim 39, wherein the gateway is configurable to provide
security audit trails.

49. The carrier medium of claim 48, wherein the gateway providing security audit trails comprises the gateway providing access to a logging service.

50. The carrier medium of claim 49, wherein the logging service is operable to log an ID of a user that receives the event or sends the request.

51. The carrier medium of claim 49, wherein the logging service is operable to log an ID of the managed object that is the source of the event or the target of the request.

52. The carrier medium of claim 49, wherein the logging service is operable to log a time at which the event or request is generated.

53. The carrier medium of claim 49, wherein the logging service is operable to log a time at which the event or request is delivered.

54. The carrier medium of claim 39, wherein the request comprises a query for information concerning the managed object.

55. The carrier medium of claim 39, wherein the request comprises a command to set one or more parameters of the managed object.

56. The carrier medium of claim 39, wherein the request is converted from the interface definition language to a Portable Management Interface (PMI) format prior to delivery to the managed object.

57. The carrier medium of claim 39, wherein the request is converted from the interface definition language to a platform-specific format prior to delivery to the managed object.

add
a²